

US EPA RECORDS CENTER REGION 5



466242

**Field Oversight Summary Report
ACS NPL Site
Griffith, Indiana**

March 22, 1999



BLACK & VEATCH
SPECIAL PROJECTS CORP.

101 North Wacker Drive, Suite 1100, Chicago, Illinois 60606, (312) 346-3775

U.S.EPA
American Chemical Service Inc.

BVSPC Project 46518
BVSPC File C.3
April 2, 1999

Mr. Kevin Adler
Remedial Project Manager
U.S. Environmental Protection Agency
Region V, SR-J6
77 West Jackson Boulevard
Chicago, IL 60604-3590

Subject: Field Summary Report

Dear Mr. Adler:

Enclosed is a copy of the Oxygen Releasing Compound injection and quarterly groundwater sampling field oversight summary report for your review. Quarterly sampling took place during the week of March 22, 1999, at the American Chemical Services Superfund site in Griffith, Indiana. Please call me at 312/683-7857 if you have any questions.

Sincerely,

BLACK & VEATCH SPECIAL PROJECTS CORP.

A handwritten signature in cursive script, appearing to read 'Chad Gailey'.

Chad Gailey
Project Geologist

ctg
Enclosures

cc: S. Mrkvicka, BVSPC w/enclosures

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USEPA/ARCS V BVSPC Oversight Summary

Reporting Period March 22 to 24, 1999 Hours Worked: 42
Site Name/Location: ACS/Griffith, IN BVSPC Project No.: 46518.238
USEPA Work Assignment Manager: Kevin Adler, RPM
Site Manager: Steve Mrkvicka

Personnel Summary Affiliation	No. of Personnel	Responsibility
Lee Orsorz, Montgomery Watson, Addison, IL	1	Respondent's General Contractor
John Noyes, Jennifer Smith, Judith Kinch, Don Karmer Montgomery-Watson, Addison, IL	4	Field Sampling Crew (for quarterly groundwater sampling)
Chad Gailey, Black & Veatch Special Projects Corp, (BVSPC)	1	USEPA Oversight Contractor

Summary of field activities:

During the week of March 22, 1999, Montgomery Watson conducted quarterly groundwater sampling at the American Chemical Services (ACS) Site. One Montgomery Watson field sampling crew was assembled to collect samples from monitoring wells within the ACS site boundary, the wetland area, and the areas that lie north, south, and east of the ACS facility. BVSPC's one-man crew conducted oversight of the field activities. A BVSPC representative accompanied the sampling team to ensure that proper sampling techniques were conducted. The specified operating procedure (SOP) for low flow groundwater sampling was adhered to by the sampling team. The BVSPC representative was tasked to collect split samples if the sampling technique differed from the SOP. BVSPC oversaw Montgomery Watson's sample paperwork procedures and decontamination set-up and routine.

Montgomery Watson collected 11 groundwater samples, and duplicate samples, matrix spike/matrix spike duplicate (MS/MSD) samples, and field equipment rinsate blanks. Of the 11 groundwater samples, only 3 were required by the USEPA and the other 8 were collected for biological parameters to monitor natural attenuation. The monitoring wells sampled by Montgomery Watson are listed in the field logbook notes,

which are attached to this report. Montgomery Watson used the low flow sampling technique and monitored for stability of the following groundwater parameters: pH, specific conductance, and temperature. Groundwater turbidity was also monitored and samples were collected when turbidity was 10 NTU's or less.

One equipment rinsate blank was collected by Montgomery Watson to ensure that proper decontamination procedures yielded clean sampling equipment.

BVSPC noted problems with the tubing used to pump and sample. The tubing was difficult to handle. Numerous kinks were created that hindered flow. Montgomery Watson dedicated tubing for each well during the last sampling event.

During the week of March 8 and 15, 1999, Montgomery Watson conducted Oxygen Releasing Compound (ORC) injection in the area north of the ACS site. The contracted work was done by Environmental Field Services (EFS), John Noyes from Montgomery Watson, was onsite to oversee the work. The EFS field crew consisted of a two member team, a one-ton work truck, and a track-mounted GeoProbe®. On March 16, 1999, BVSPC conducted oversight to ensure proper field procedures were followed. The work plan presented by Montgomery Watson was adhered to by all field members. A copy of the field logbook note are attached.

Signature: Chad Gailey

Date: April 2, 1999

30 *Charles L. Lacy* 02/04/99
09:45 I am leaving the site

Charles L. Lacy

③ *Charles L. Lacy* 03/16/99
09:10 ARRIVED on site, Weather SUNNY
51° Light BREEZE from THE South west
Signal in AT MW WATER TREATMENT
Building.

9:50 DROVE up to ORC AREA
Present is Two Employees from
CFS (BENNY - mixing ORC 40lbs per bbl
at 50% by weight concentration)
Doing the injection with
Geoprobe®

10:00 *Andy* Hooking up the injection tub,
Facing South west. Picture #4 Role 1

10:15 Picture #5 of the 5 gallon Bucket
of ORC material
Picture #6 Role 1

BENNY mixing the ORC at 50% by
weight (40 lbs to 2 1/2 gallons of water)
Facing North.

The injection of ORC is Taking Place
East of MW 48.

The ORC is layered out in a
10ft grid with observation wells
(3 New well and one existing well
MW 48) MW 48 is supposedly
Down gradient.

Charles L. Lacy

(32) Chad Saly 03/16/99
 11:00 Injecting ORC in the North
 Part of the Grid.
 John Noyes INFORMED ME
 THIS WILL BE A MONTHLY MONITORING
 PROGRAM, HE HAS ALREADY COLLECTED
 BACK GROUND WATER SAMPLES JUST
 BEFORE INJECTION OCCURED.
 Lay out Northy Tracks x

N

ORC P27

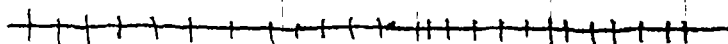
x
 ORC P28

x
 ORC P26

may 8
 x

New well
 x
 ORC P25

RAIL ROAD TRACKS



(33) Chad Saly 03/16/99
 11:05 The monitoring well ARE locked
 with well protective casing 3ft high
 with 2'x2'x4" PAD.
 11:15 Picture #7 Looking South East.
 Picture of ORC P25 with the spoils
 drawn in back ground, lock is
 locked, AREA is clear from
 steel material. There is existing
 debris (tires trash)
 12:00 Went to lunch
 12:40 Return from lunch
 13:00 Start doing ORC injections #12
 for the day
 14:15 Take to Steve Melvick, got phone
 message from Tom Blarr. (maw)
 14:40 Observe MORE injections #15 or 16
 There will be 23 all together today
 16:10 Leave Site head for office.

Chad Saly

(34) Chae Lally 03/22/99
 9:20 ARRIVED ON Site, Signal in
 AT WATER TREATMENT Bld.
 TALK TO LEE.
 WEATHER SUNNY 35° wind out
 of the Northwest 0-7 knots
 9:45 Observed Janith Kintch taking
 a water level AT SB06 (Northwest
 of site).
 10:05 Don Karamer ORC P28
 observed them measuring water level.
 10:25 PE 61st John Noyes taking
 ground water measurement.
 This is south of Site NEAR FARM
 Fields.
 10:50 Return to Water TREATMENT Bld.
 Jenny is present pre for ground water
 samples.
 11:25 Lunch
 12:20 Return from Lunch
 13:10 Taking Water Levels @ John Noyes
 13:30 Jenny Pulled up in the Car while
 John Noyes, and Chae I were measuring
 Groundwater at House Along Reeler Road.
 Jenny could not find Two Piezometers
 Chae Lally

(35) Chae Lally 03/22/99
 13:30 IN side the plant. They were barred
 she tried locating them for almost hour.
 14:00 MOVED TO New Site Right Next to
 the South TRACKS ON East side
 of Colfax.
 16:00 Left site for office

Chae Lally

(36) Chad Sailer 03/23/99

6:30 MET with John + Don, talked about Sampling EVENT.

7:15 ARRIVED AT WATER TREATMENT

Bldg. Signal in.

Weather Sunny Light BREEZE.

TEMP 35°-40° predicted 50's

Prepping Getting paper work around

9:30 Midwest Material Service (OWNER)
Talked to him, Regrade off site
AREA, ONE DOZER Present one
Pickup truck.

9:55 ARRIVED AT MW-45 This
is A Bio well.

* Present to Day Don, John.

10:00 Took Picture of the Noyes —
Adjusting Controller IN Picture Log. —

10:10 Water is A Rust color. Flow
Rate is Low.

Access is done with ATV. (Honda
300 4X4).

10:25 Return to WTB To check phone,
message check in with store. —
John Don are sampling.

(37) Chad Sailer 03/23/99
Pictable Log

10:00 Picture #8 John Noyes SETTING
Pump Rate on GT. Pali Flo Controller
Water Parameter ARE Being Monitored
with Hydrolab Flow through Cell
over 2-5 min.

13:15 Picture #9, Facing NE, of
John looking up Pump at MW19.
This Bio well.

14:45 Picture #10 Deconting Pump out mw18
100% Reader Rd facing North
03/24/99

8:35 Picture #11 of John Noyes Sampling
mw39. Facing North East This is
A Bio well.

9:20 Picture #12 of Don Kremer Taking
Parameter at mw48 This is
A chemical well, Facing west

9:33 Picture #13 of John Noyes filling
Vlaar Bottle at mw48 facing NE
This is a chemical well on the
EPA's list. No split venters.

9:40 Moving to MW38.

Chad Sailer

(38)

Picture Log

- 10:25 Picture #14 of John Noyes
Disconnecting HydroLab to take
samples. Facing South EAST
This is Bio Lab sample for
Indicator parameters.
- 13:35 Picture #15 Facing North
of John + Don taking sample
Container and this is the MS
MSD sample. Note muck was
the Duplicate.
This would of been a split
it is being test for parameter
only by MW.
- 14:35 Picture #16 Facing west at
MWPR of John Packney VOA's
This is a chemical well test &
MW is doing Freeboring. Parameter
only. This would of been split
sample
- 14:45 ~~Finish Sampling. DMob to the WTB~~
~~To dispose of Puage water~~
~~Don is putting it in to the WTB~~
~~Slurp AREA. CBJ~~

(39)

Picture Log

- 16:05 Picture #17 of John Noyes
Pulling a little Blank as he adjust
Controller to get proper flow
Rate. in side the WATER TREAT-
ment Bldg
- 16:10 Picture #18 of Don Packing ice
for shipping sample out. This is
the WATER TREATMENT Bldg.
Sampling Complete Just have to
put away Equipment for USEPA
(sample bottles, Preservatives, Coolers)
MW is Packing Equipment AND cleaning
(Note Picture 18 DID NOT Turn out)

Chris Gully

(40) *Paul Saly* 05/23/99

10:45 checked in with Steve Mikucki
AND Dave Graham.

11:00 Return to OVERSEE John AND Dean
Finish at MW 41.

11:20 DMOB TO WATER TREATMENT Plant (WTB)

11:45 BREAK for lunch

12:30 Return to WTB

13:10 MOB TO MW 18, Rugh OFF color Rd
At the resident house.

13:15 Picture of John Noyes, Enter in
Picture Log Pg 37. This MW 19
A Bio well. No A perspective
split.

The water (Purge) is dark gray to
black.

13:37 Finish @ Sampling at MW 19.
MOB to 100% Rucker Rd.

14:29 TAKING PARAMETER AT MW 18.

14:45 Finish Pumping, Picture of DECONING
Pump at MW 18. Picture Note
in Picture Log Pg 37

15:00 MOBing To MW 10, John Noyes
Got the Tahoe & stuck.

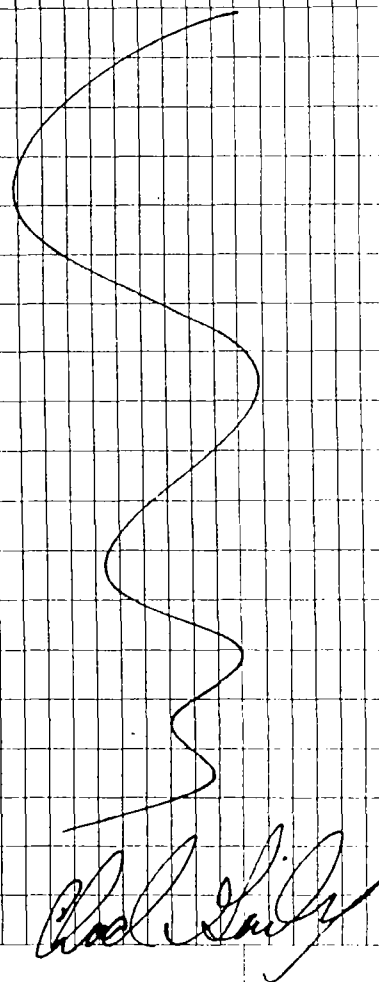
15:40 John Called Dave's wrecker.

16:50 Got the Truck unstuck.

(41) *Paul Saly* 05/23/99

16:50 Then road to help the wrecker
get unstuck.

17:10 FINISHED pumping MW 40.
MOB TO WTB TO Pack
AND Put Equipment Away.



Paul Saly

④

Chad Lutz 03/24/99

- 6:30 MET With John AND Don to
Prep for Day of Sampling
- 7:25 Signed in at WATER TREATMENT
Building (WTB), Present To Day
are Don Kremer AND John Noyes.
also Lee Cross AND Union Reps. —
Weather, Sunny 41° No wind. —
- 8:00 Arrived at MW 39 North of site
ACROSS from Oak Ridge Prairie.
- 8:30 Pumping water at MW 39 color
AS WATER RUST.
- 8:35 Picture of John Sampling. Bio well
Picture ID is in the Picture Log.
- 8:40 Finish Sampling, Decontam
Pump. Moving to MW 48. —
- 9:00 Arrived at MW 48, John + Don
are setting up to Sample well.
- 9:20 Picture of Don taking parameter
F.D. is in Log Book Page 37. —
Final Parameters
- 9:28 Temp pH CONC DO Turb JRP
6.87 8.51 644 2.81 6 145
- 9:33 Picture of John Noyes filling
vial bottles. Note in Picture Log
Pg 37.

Chad Lutz

④

Chad Lutz 03/24/99

- 10:10 Pumping MW 38 This is a
Bio well for MWs MNA study. —
Difficult Access.
- 10:25 Picture of John Noyes unhooking
Hydro Lab to take samples. —
Picture info is in Picture Log Pg 38.
- 10:40 MOB AT WTB To Dispace of Pump
WATER Pre for Next set of wells
- 11:30 Lunch
- 12:30 MOB TO MW 49 South of North Tanks.
- 1:00 Pumping water, VERY Rust color.
CALOPAH Rust color WATER.
- 1:05 WATER (Pump) Cleared up to Clear
with sparse Flakes of Rust colored
material. —
- 1:29 Temp pH CONC DO Turb CRP
7.11 8.23 574 2.45 36 172
- Final Parameters
- 1:30 Begin Sampling.
- 1:35 Picture of John + Don filling sample
bottles. Info in Picture Log Pg 38.
- 1:40 MOB To 9R
- 14:05 Pumping MW 9R

Chad Lutz

(44)

Charles L. Lacy 03/29/70

14:15 WATER is clear in Line
but in bucket it has Dark Grey
color.

Temp pH Cond DO Turb ORP
14:33 11.98 8.17 942 155 6.2 129

Final WATER Parameters —
MWGR. —

14:35 Picture John Noyes Sampling MWGR
Info in Picture Log Pg 38

14:45 Finish Sampling DMOR to WTB.

16:00 Pulling Field Blank

16:05 John Noyes, Picture of Jim adjusting
control During Field Blank
Picture info is on Pg 38 Picture Log.

16:15 Sampling is Done, Putting away
equipment Such as Bottles, Preservatives,
Coolers. MW is cleaning Packing
Sample plus Equipment to Return
to Renters and their office.

Charles L. Lacy



Site: American Chemical Services, Inc.

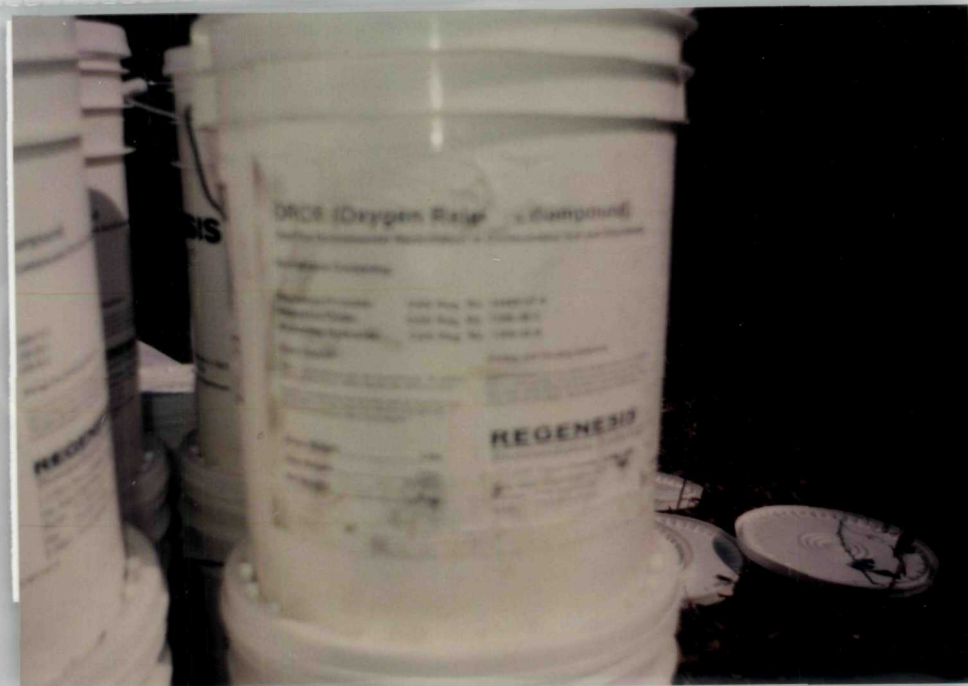
Proj. #: 46517/46518

Roll: 1 Photo #:4

Date: 03-16-99 Time: 10:00

Photographer: Chad Gailey

Description: Picture facing South West of EFS hooking up the injection tube in the North area of the site.



Site: American Chemical Services, Inc.

Proj. #: 46517/46518

Roll: 1 Photo #:5

Date: 03-16-99 Time: 10:15

Photographer: Chad Gailey

Description: Close-up picture of the ORC material use for injection by EFS.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518

Roll: 1 Photo #: 6

Date: 03-16-99 Time: 10:15

Photographer: Chad Gailey

Description: Close-up picture of Benny from EFS mixing the ORC at a
 fifty percent by weight with water (40 lbs. per 2 1/2
 gallons of water).

Site: American Chemical Services, Inc.

Proj. #: 46517/46518

Roll: 1 Photo #: 7

Date: 03-16-99 Time: 11:15

Photographer: Chad Gailey

Description: A picture of new ORC PZ5 with a spoils drum in the
 back ground facing South East in the North area of the
 site. All spoils are containerized, and the well is secure.



Site: American Chemical Services, Inc.

Proj. #: 46517/46518

Roll: 1 Photo #: 8

Date: 03-24-99 Time: 10:00

Photographer: Chad Gailey

Description: A picture of John Noyes setting the pump rate on the Redi Flow controller to begin taking parameters with the Hydrolab at MW-45 facing NW.



Site: American Chemical Services, Inc.

Proj. #: 46517/46518

Roll: 1 Photo #: 9

Date: 03-24-99 Time: 13:15

Photographer: Chad Gailey

Description: A picture facing NE of John Noyes connecting the tubing to pump at MW-19.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 1 Photo #:10
 Date: 03-23-99 Time: 14:45
 Photographer: Chad Gailey
 Description: A picture facing NW of MW deconing the pump at MW-18, located at 1009 Reder Rd.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 1 Photo #: 11
 Date: 03-24-99 Time: 08:35
 Photographer: Chad Gailey
 Description: A picture of John Noyes sampling MW-39 facing NE.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 1 Photo #: 12
 Date: 03-24-99 Time: 09:20
 Photographer: Chad Gailey
 Description: A picture facing West of Don Kramer taking parameter with a Hydrolab at MW-48.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 1 Photo #: 13
 Date: 03-24-99 Time: 09:33
 Photographer: Chad Gailey
 Description: A picture facing NE of John Noyes filling a VOA bottle at MW-48.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 1 Photo #: 14
 Date: 03-24-99 Time: 10:25
 Photographer: Chad Gailey
 Description: A picture facing SE of John Noyes disconnecting the Hydrolab to take sample at MW-38.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 1 Photo #: 15
 Date: 03-24-99 Time: 13:35
 Photographer: Chad Gailey
 Description: A picture facing North at MW-49 of John Noyes and Don Kramer filling sample bottles.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 1 Photo #: 16
 Date: 03-24-99 Time: 14:35
 Photographer: Chad Gailey
 Description: A picture facing West at MW9R of John packing VAO bottles in bubble wrap.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 1 Photo #: 17
 Date: 03-24-99 Time: 16:05
 Photographer: Chad Gailey
 Description: A picture inside the water treatment building of John Noyes adjusting the controller to pull a field blank.